FST 3-6 Warm up

1) The weights of a group of astronauts training for a mission to the Moon are in the table below.

Astronaut	1	2	3	4	5	6	7	8	9	10
Weight (lb)	163	115	180	191	121	183	178	107	201	186

a) Find the mean weight and the standard deviation for this set of data.

b) The gravity on the moon is $\frac{1}{6}$ the gravity of Earth, so weights on the Moon are $\frac{1}{6}$ of weights on Earth. Give the mean weight and standard deviation of this group of astronauts on the Moon.

c) How will the median, the first quartile, and the range of the data be affected by the transformation in Part b.

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